

CLAIM LISTING

1-9. (canceled)

10. (previously presented) A method for maintaining SIP contact addresses, the method comprising:

- receiving a first registration message for a remote unit from a first SIP proxy user agent (UA);

- storing, as a member of a group of contact addresses for the remote unit, both a first contact address based on the first registration message and a first creation timestamp for the first contact address;

- receiving a second registration message for the remote unit from a second SIP proxy UA after receiving the first registration message;

- storing, as a member of the group of contact addresses for the remote unit, both a second contact address for the remote unit and a second creation timestamp for the second contact address;

- receiving a third registration message for the remote unit from the first SIP proxy UA;

- sending, in response to the third registration message, a response that indicates a contact address more recent than any provided by the first SIP proxy UA;

- receiving a deregistration message for the remote unit from the first SIP proxy UA; and

- removing, from the group of contact addresses for the remote unit, the first contact address.

11. (original) The method of claim 10 wherein the response that indicates a contact address more recent than any provided by the first SIP proxy UA comprises a SIP 200 OK message and at least one creation time stamp.

12. (original) The method of claim 11 wherein the response further comprises a group of contact addresses and a creation time stamp for each.

13. (original) The method of claim 10 wherein the first registration message comprises a SIP REGISTER message, the second registration message comprises a SIP REGISTER message, and the third registration message comprises a SIP REGISTER message.

14. (original) The method of claim 10 wherein the deregistration message comprises a SIP REGISTER message with an Expires header value of "0".

15. (canceled)

16. (previously presented) A SIP registrar comprising:
a SIP location data base; and
a SIP location processor, communicatively coupled to the SIP registration data base, adapted to
receive a first registration message for a remote unit from a first SIP proxy user agent (UA),
store in the SIP location data base, as a member of a group of contact addresses for the remote unit, both a first contact address based on the first registration message and a first creation timestamp for the first contact address,
receive a second registration message for the remote unit from a second SIP proxy UA after receiving the first registration message,
store in the SIP location data base, as a member of the group of contact addresses for the remote unit, both a second contact address for the remote unit and a second creation timestamp for the second contact address,
receive a third registration message for the remote unit from the first SIP proxy UA,
send, in response to the third registration message, a response that indicates a contact address more recent than any provided by the first SIP proxy UA,
receive a deregistration message for the remote unit from the first SIP proxy UA, and
remove, from the group of contact addresses for the remote unit, the first contact address.

17. (new) The SIP registrar of claim 16 wherein the response that indicates a contact address more recent than any provided by the first SIP proxy UA comprises a SIP 200 OK message and at least one creation time stamp.

18. (new) The SIP registrar of claim 17 wherein the response further comprises a group of contact addresses and a creation time stamp for each.

19. (new) The SIP registrar of claim 16 wherein the first registration message comprises a SIP REGISTER message, the second registration message comprises a SIP REGISTER message, and the third registration message comprises a SIP REGISTER message.
20. (new) The SIP registrar of claim 16 wherein the deregistration message comprises a SIP REGISTER message with an Expires header value of "0".
21. (new) The SIP registrar of claim 16 wherein the second registration message is received subsequent to a registration timer expiration.
22. (new) The SIP registrar of claim 16 wherein the first registration message comprises a SIP REGISTER message that indicates that it comprises a new contact address.
23. (new) The method of claim 10 wherein the second registration message is received subsequent to a registration timer expiration.
24. (new) The method of claim 10 wherein the first registration message comprises a SIP REGISTER message that indicates that it comprises a new contact address.